Original/Duplicate/Triplicate

P.W.G. 17 — 1st and final Bill — **CONTRACT CERTIFICATE** — Reference paras 159 & 170

NO

Division: Yelahanka — Sub division: Yelahanka New Town

Bills received No — Date — Sub-divisional / Divisional — Cash book vr No — Date

Scheduled Docket No — Head of account

Name of work(as per sanctioned estimate) :-

Work Code:003-16-00006

NAME OF WORK :Drilling of borewells and providing pump and motors in ward no 03 of Yelahanka Satellite Town Sub Division

Name of contractor and full address :- **B P Mahesh**

Reference to agreement No :- 55 — Estimated cost : 25,00 — Work order No:55 dt:29/03/2016

Certified that the measurments were taken by me on 30/04/2016 and recorded on pages 462002-462320 of measurment book No 4624 and the work is satisfactorily executed by the contractor.

B.P. Mahesh
Signature of contractor

Asst. Engineer

Certified that the measurments were taken by me on and recorded correct.The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of account II have been actually brought to site of work and the contractor has not previously received any advance on this security. These materials are of any imperishable nature and are all required by the contractor for immidiate use on the work in connection with items for which rates finished work have been agreed upon.A formal agreement signed and executed by the contractor is recorded in divisional office.

Sub-divisional officer

II MEMORANDUM OF PAYMENT

1) Total value of work done or supplies as per A/c within		
2) Deduct amount to be held in reserve being-----percent Rs----------%		
3) Balance---		
4) Deduct payments		
a) Amount of previous payment as in divisional/sub divisional cash book vr No----------dated----------S.D No----------Amount	Bill	2456165
b) Cost of payments/stores or other materials supplied now made recovery of /Amount paid on this bill by cheque/cash	P.W.	159650
	Tp	24535
	EST	98257
Total	I&P	24565
5). Balance being unpaid value of work done held in reserve	Ref	2457
6) Deduct cash of advance made on divisional/sub divisional cash book		
7) Net amount due to or from contractor	TP	3694485
UN ADJUSTED ITEMS	CH	2146680
8) Advance to contractor for materials to site(as detailed within)		
9) Value of government materials supplied	TNI	2456165
TOTAL AMOUNT UN-ADJUSTED		

Contractor's signatures B.P. Mahesh

Received Rs----------(in words)----------

For use in the Executive Engineer's office----------

of payment as per memorandum

(in final settlement of all demand)

Witness

1)

2) B.P. Mahesh

Dated signature of contractor

paid by me cheque No dated

Cash Rs.....

Reciept Stamp

Added & Admitted for Rs. 2456165/-

Rs 2146680/- by Cheque

and Rs. 309485/- by adjustment

Asst. Engineer
Yelahanka Division
BDA

Executive Engineer

Date — Initials of officer making payment — Date

Sl.	Items grouped under		s		Present			Total	
	Sub-heads and	Unit	ement		Measurement			Up to date	
	Sub-works of the estimate		Qty	Cost	Qty	Rate	Amount	Qty	C...
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Geophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidared formation for proper sealing of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of	Each BW			5.00	1938.46	9692.30	5.00	9692.30
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars and cap etc.,) 29/1.1 PRED SR 2006-07 and as per with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr							
	0 to 50 m				250.00	315.18	78795.00	250.00	78795.00
	50 to 100 m				250.00	412.00	103000.00	250.00	103000.00

	100 to 150 m				250.00	458.35	114587.50	250.00	114587.50
	150 to 200 m				250.00	484.10	121025.00	250.00	121025.00
	200 to 250 m				250.00	560.32	140080.00	250.00	140080.00
	250 to 300 m				275.00	600.49	165134.75	275.00	165134.75
3	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) as per corragandum with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr			210.00	1325.00	278250.00	210.00	278250.00
4	Providing 250mm dia PVC Pipe 6kg/cm as per specification and direction of the Engineer in Charge of the work with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr			50.00	1100.00	55000.00	50.00	55000.00
5	Providing and fixing 760mm Borewell Cap with all lead and lift complete as per specification as per direction of Engineer incharge.	Each			4.00	100.00	400.00	4.00	400.00

...ery at ...w texmo' ...Subar / ...Calamal/ make ...for vertical ...ation in 150mm dia ...well comprising of ...gle stage or multistage ...pump close coupled by ...eatus of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for operation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required accessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 10.00 HP				4.00	49250.00	197000.00	4.00	197000.00

	marked steel tube welded stance welded igh frequency, tion welded (HFIW) finished welded type nominal bore given elow screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008. 50 mm dia including Collar Heavy Class with all lead and lift complete as per specification as per	Rmtr			980.00	431.00	422380.00	980.00	422380.00
8	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 46/1 No. 30-B 4.0 Sqm mm of 36 strands 0.3mm dia Group - A KPWD Electrical SR 2007-08 3/2008-09 4538/19.01.2009 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr			2020.00	151.00	305020.00	2020.00	305020.00

	...mpset ...ging and ...with all ...erection ...ls and labour ...ing supply and ...on of one pair ...pporting clamps, one ...rewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) (As per rate approved KUWS & DB for year with all lead and lift complete as per specification as per direction of Engineer incharge.	No			4.00	3000.00	12000.00	4.00	12000.00
10	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., P No. 30/1 No. 2/f KPWD Electrical SR 2007-08 with all lead and lift complete as per specifiention as per direction of Engineer incharge.	No			4.00	285.00	1140.00	4.00	1140.00

	...UG cable ...minium ... PVC insulated ... galvnised steel, ... steel tap armoured ... with PVC outer ... sheathing 1.1 KV class.P ... 67/ I No. 10(d) 4 core 16 Sqmm KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr			100.00	150.00	15000.00	100.00	15000.00
12	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, P-68 /I.No.11a) KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr			100.00	8.00	800.00	100.00	800.00
13	Digging or trenching of 0.6 m x 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete as per Civil SR KSRB 1-2 P-7 P No. 68/ I, No. 12-d KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr			80 100.00	60.00	4800 6000.00	80 100.00	4800 6000.00

	...ng of ... Gage GI ...kness not ...rent on ...n crossing ...ary clamping ...es for UG ... KV class P. ... I No.15-A KPWD ...rical SR 2007-08 ...h all lead and lift ...mplete as per specification as per direction of Engineer incharge.	Mtr			16.00	240.00	3840.00	16.00	3840.00
15	Supplying and fixing L.T. cast iron pot head suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., P. No. 69/ I No. 16-b KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	No			4.00	260.00	1040.00	4.00	1040.00

	...wiring, ...for ...Joints, I.C ...other ...nts on the meter ...using 40 mm dia ... mm thick GI pipe 2.5 ... long buried in a pit. The pit should be filled with equal propotion of soil and charcoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (PWD Electrical SR-1999-2000, P-66, I.No.7) KPWD Electrical SR 2007-08 with all lead and lift complete as per ...ifications	No			4.00	1950.00	7800.00	4.00	7800.00
17	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... P No. 30/I No 3b KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	No			8.00	120.00	960.00	8.00	960.00

	...fixing in ... nominal ... metal non-return ...zontal type of ...roved make including ...t of all materials, ...bour and HOM of ...quipments with all leads ...complete as per ...specifications,with all lead and lift complete as per specifieation as per direction of Engineer incharge.	No			4.00	1579.40	6317.60	4.00	6317.60
19	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No. 93/ I. with all lead and lift complete as per specification as per direction of Engineer incharge.	No			4.00	227.90	911.60	4.00	911.60
20	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc coomplete with all lead and lift complete as per specification as per direction of Engineer incharge.	No			16.00	80.00	1280.00	16.00	1280.00
21	Supplying shunt capacitor confirming to IS 2834, 3 phase 400/400 volts grade for power factor improvement of rotaining machinary, capacitorin KVAR rating Nos. 2KVAR capacity with all	No			4.00	350.60	1400.00	4.00	1400.00

	...d fixing ...rcuit ...akers on ...MCB distribution ...ding necessary ...materiasl wiring ...mplete as requireds 5 to ...amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications with all lead and lift complete as per specification as per direction of Engineer incharge.	no			4.00	1000.00	4000.00	4.00	4000.00
23	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with temper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.35 P.No. 39, P. No. 39B KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Sqm.cm			93600.00	0.33	30888.00	93600.00	30888.00

	...elivery at ... Star / ... Sub- ...ch/ GK ...est indigenous ...mbined energy ...- cum- control panel ...d unit of size 600x450 ... mm minimum ...chanically strong ...min and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided, the combined energy meter cum-control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components ...	No			4.00	11000.00	44000.00	4.00	44000.00
25	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits ...	Cum			245.70	283.02	69538.01	245.70	69538.01

...stalation ... ...including cost ... and specials and ...ing lowring into ...es, laying true to ... level and perfect ...ng at joints, leak ... f including jointing ...sing the pipe alround ... depth Not less than ...cm with grave or ...elected earth avalabile from the execavation Etc., Page No.3 item No.4.2 PRE SR2008-09. with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr					0.00	0.00	0.00
				910.00	161.71	147156.10	910.00	147156.10
KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50mm, and lift upto 1.5m, including cost of all labour complete as per with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr			245.70	76.32	18751.82	245.70	18751.82

	...d fixing in ... brass gate valve ... wheel of approved quality (screwed ...) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. with all lead and lift complete as per specification as per direction of Engineer	Each			29.00	2120.00	61480.00	29.00	61480.00
30	**DESCOM charges**						33000.00		33000.00
					TOTAL		2420700.00		2457667.69

2457165.69

Asst. Engineer
Ward no:03

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP, Bangalore-64.